Appl. No. 09/851,372 Amdt. dated February 24, 2004 Amendment under 37 CFR 1.116 Expedited Procedure Examining Group

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A combined radiation and drug delivery catheter for inhibiting hyperplasia, comprising:

a catheter body having a proximal end and a distal end;

an ionizing radiation source coupleable to the catheter body for applying a radiation dose to a body lumen;

a source of at least one radiosensitizer; and

means coupleable to the catheter body or the radiation source for releasing the a radiosensitizer to the body lumen, wherein the combined radiation and radiosensitizer delivery catheter inhibit hyperplasia.

- 2. (Original) A delivery catheter as in claim 1, wherein the ionizing radiation source is an x-ray tube.
- 3. (Withdrawn) A delivery catheter as in claim 1, wherein the ionizing radiation source is a radioisotope.
- 4. (Withdrawn) A delivery catheter as in claim 1, wherein the ionizing radiation source is a receptacle in the catheter body for receiving radioisotopic materials.
- 5. (Currently amended) A delivery catheter as in claim 1, wherein the means emprises a source of at least one radiosensitizer is selected from the group consisting of taxol, misonidazole, metronidazole, etanidazole, 5-fluorouracil, texaphyrin, C225, and cyclooxygenase-2 inhibitor.

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- 6. (Currently amended) A delivery catheter as in claim 1, wherein the source of at least one radiosensitizer means comprises a source of taxol incorporated in a solution with polyoxyethylated castor oil and dehydrated alcohol.
- 7. (Original) A delivery catheter as in claim 1, wherein the radiosensitizer is attached or encapsulated in a lipid or surfactant carrier.
- 8. (Original) A delivery catheter as in claim 1, wherein the means for releasing the radiosensitizer comprises a microporous balloon on the catheter body.
- 9. (Original) A delivery catheter as in claim 8, wherein the microporous balloon contains the radiosensitizer and the radiosensitizer is released from the microporous balloon by elution from pores.
- 10. (Original) A delivery catheter as in claim 9, wherein the microporous balloon is inflatable with the radiosensitizer.
- 11. (Original) A delivery catheter as in claim 1, wherein the means for releasing the radiosensitizer comprises a matrix formed over at least a portion of a balloon on the catheter body, wherein the radiosensitizer is in or beneath the matrix.
- 12. (Original) A delivery catheter as in claim 11, wherein the matrix comprises a rate controlling material, wherein the rate controlling material controls the rate at which the radiosensitizer is released from or through the matrix.
- 13. (Original) A delivery catheter as in claim 12, wherein the radiosensitizer is released from the matrix by diffusion through the matrix.
- 14. (Original) A delivery catheter as in claim 12, wherein the radiosensitizer is released from the matrix by degradation of the matrix.

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- 15. (Original) A delivery catheter as in claim 12, wherein the rate controlling material is porous and the radiosensitizer is released from the material by elution from pores.
- 16. (Original) A delivery catheter as in claim 11, wherein the radiosensitizer is disposed on the balloon.
- 17. (Original) A delivery catheter as in claim 8 or 11, wherein the ionizing radiation source is positionable within the balloon.
- 18. (Withdrawn) A delivery catheter as in claim 1, wherein the ionizing radiation source is a radioisotopic balloon and the means for releasing the radiosensitizer comprises a matrix formed over at least a portion of the radioisotopic balloon, wherein the radiosensitizer is in or beneath the matrix.
- 19. (Previously presented) A delivery catheter as in claim 8 or 11, further comprising perfusion threading on an outer surface of the balloon.
- 20. (Original) A delivery catheter as in claim 19, wherein the threading has a spiral, helical, or angled pattern.
- 21. (Previously presented) A delivery catheter as in claim 8 or 11, wherein the catheter body has a perfusion lumen.

22-42. (Cancelled)